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Lamb, H.H. 1950: Types and spells of weather around the year in the British Isles. *Quarterly Journal of the Royal Meteorological Society* 76, 393–438 *Robert L. Wilby* 379
Lindeman, R.L. 1942: The trophic–dynamic aspect of ecology. *Ecology* 23, 399–418 *Martin Kent* 253
Mackin, J.H. 1948: Concept of the graded river. *Geological Society of America Bulletin* 59, 463–511 *R.J. Chorley* 563
Rapp, A. 1960: Recent development of mountain slopes in Kärkevagge and surroundings, northern Scandinavia. *Geografiska Annaler* XLII, 71–200 *B.H. Luckman* 97

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http://vishnu.glg.nau.edu/rcb/globaltext.html
http://www.scotese.com/
http://pubs.usgs.gov/gip/geotime/contents.html
http://aleph0.clarku.edu/huxley/Book/PhysioG.html

### Erratum

The title of the paper by Wayne J. Stephenson in Volume 24, Number 3, pp. 311–327 was incorrect. It should have read 'Shore platforms – remain a neglected coastal feature'. Due to an unfortunate misunderstanding during the production process the title was altered and the subtle allusion to the original paper by Professor Trenhaile was lost. The publisher would like to take full responsibility for this error and apologize for any embarassment caused.